

Amendments to the Claims:

This list of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A blast resistant assembly comprising:

a frame;

a composite panel having at least one glass sheet having a peripheral edge and at least one polymeric layer mounted in the frame; and

at least one retainer extending from the frame inside the peripheral edge of the at least one glass sheet and at least partially embedded in the polymeric layer for securing the composite panel within the frame when a force is applied to the composite panel.

Claim 2 (original): The blast resistant assembly of Claim 1, wherein the composite panel comprises a plurality of the glass sheets, and the at least one polymeric layer is located between the glass sheets.

Claim 3 (original): The blast resistant assembly of Claim 1, wherein the at least one retainer comprises:

a base connected to the frame; and

an extension connected to the base, wherein the extension is at least partially embedded in the at least one polymeric layer.

Claim 4 (withdrawn): The blast resistant assembly of Claim 3, wherein the base is an integral part of the frame.

Claim 5 (original): The blast resistant assembly of Claim 3, wherein the base is a separate part installed in the frame.

Claim 6 (original): The blast resistant assembly of Claim 3, wherein the extension comprises two opposed faces and each of the opposed faces contacts the at least one polymeric layer.

Claim 7 (withdrawn): The blast resistant assembly of Claim 3, wherein the extension comprises two opposed faces and one of the opposed faces contacts the at least one polymeric layer.

Claim 8 (original): The blast resistant assembly of Claim 3, wherein the extension comprises surface features for securing the extension within the at least one polymeric layer when a force is applied to the composite panel.

Claim 9 (original): The blast resistant assembly of Claim 3, wherein the extension has a serrated surface.

Claim 10 (withdrawn): The blast resistant assembly of Claim 3, wherein the extension comprises a first portion extending from the base and a second portion extending from the first portion in a direction substantially perpendicular to the first portion.

Claim 11 (withdrawn): The blast resistant assembly of Claim 10, wherein the first portion and the second portion form an L shape.

Claim 12 (withdrawn): The blast resistant assembly of Claim 10, wherein the first portion and the second portion form a T shape.

Claim 13 (withdrawn): The blast resistant assembly of Claim 3, wherein the extension has at least one through hole.

Claim 14 (withdrawn): The blast resistant assembly of Claim 13, wherein the at least one polymeric layer at least partially fills the at least one through hole.

Claim 15 (original): The blast resistant assembly of Claim 3, wherein the base has a generally rectangular cross-section.

Claim 16 (withdrawn): The blast resistant assembly of Claim 3, wherein the base has a generally square cross-section.

Claim 17 (withdrawn): The blast resistant assembly of Claim 3, wherein the base has a generally round cross-section.

Claim 18 (withdrawn): The blast resistant assembly of Claim 3, wherein the base comprises a longitudinal hole extending along a length of the base.

Claim 19 (withdrawn): The blast resistant assembly of Claim 3, further comprising:

at least one longitudinal channel extending along a length of the base; and
at least one projection on the frame engaging the at least one longitudinal channel.

Claim 20 (original): The blast resistant assembly of Claim 1, wherein the at least one retainer is slidably mounted to the frame.

Claim 21 (original): The blast resistant assembly of Claim 1, wherein the at least one retainer is pivotally mounted to the frame.

Claim 22 (original): The blast resistant assembly of Claim 1, wherein the at least one retainer is slidably and pivotally mounted to the frame.

Claim 23 (original): The blast resistant assembly of Claim 1, wherein the composite panel is formed by applying heat and pressure to the at least one glass sheet and the at least one polymeric layer.

Claim 24 (original): The blast resistant assembly of Claim 1, wherein the at least one polymeric layer is formed by injecting and curing a liquid polymer.

Claim 25 (withdrawn): The blast resistant assembly of Claim 1, wherein the composite panel is formed by at least partially bonding the at least one retainer between two of the polymeric layers, which are bonded between two glass sheets.

Claim 26 (withdrawn): The blast resistant assembly of Claim 25, wherein each of the polymeric layers contains a notch and the at least one retainer is at least partially bonded within the notches.

Claim 27 (withdrawn): The blast resistant assembly of Claim 1, wherein the assembly comprises three of the polymeric layers, and the at least one retainer is located in a plane defined by one of the polymeric layers which is positioned between the other polymeric layers.

Claim 28 (original): The blast resistant assembly of Claim 1, wherein the at least one retainer continuously surrounds the composite panel.

Claim 29 (original): The blast resistant assembly of Claim 1, wherein the at least one retainer discontinuously surrounds the composite panel.

Claim 30 (original): The blast resistant assembly of Claim 1, wherein the composite panel comprises a flat surface.

Claim 31 (withdrawn): The blast resistant assembly of Claim 1, wherein the composite panel comprises a curved surface.

Claim 32 (withdrawn): A retainer for securing a composite panel comprising a glass sheet and a polymeric layer within a frame when a force is applied to the composite panel, the retainer comprising:

a base structured and arranged for mounting in the frame; and
an extension extending from the base and structured and arranged for securing to the polymeric layer.

Claim 33 (withdrawn): The retainer of Claim 32, wherein the extension comprises surface features for securing the extension within the polymeric layer when a force is applied to the composite panel.

Claim 34 (withdrawn): The retainer of Claim 32, wherein the extension has substantially planar opposing faces.

Claim 35 (withdrawn): The retainer of Claim 32, wherein the extension has a serrated surface.

Claim 36 (withdrawn): The retainer of Claim 32, wherein the extension comprises a first portion extending from the base and a second portion extending from the first portion in a direction substantially perpendicular to the first portion.

Claim 37 (withdrawn): The retainer of Claim 36, wherein the first portion and the second portion form an L shape.

Claim 38 (withdrawn): The retainer of Claim 36, wherein the first portion and the second portion form a T shape.

Claim 39 (withdrawn): The retainer of Claim 32, wherein the extension has at least one through hole.

Claim 40 (withdrawn): The retainer of Claim 32, wherein the base has a generally rectangular cross-section.

Claim 41 (withdrawn): The retainer of Claim 32, wherein the base has a generally square cross-section.

Claim 42 (withdrawn): The retainer of Claim 32, wherein the base has a generally round cross-section.

Claim 43 (withdrawn): The retainer of Claim 32, wherein the base comprises a longitudinal hole extending along a length of the base.

Claim 44 (withdrawn): The retainer of Claim 32, further comprising:
at least one longitudinal channel extending along a length of the base structured and arranged for engagement with at least one projection on the frame.

Claim 45 (withdrawn): The retainer of Claim 32, wherein the retainer is structured and arranged to be slidably mounted to the frame.

Claim 46 (withdrawn): The retainer of Claim 32, wherein the retainer is structured and arranged to be pivotally mounted to the frame.

Claim 47 (original): The retainer of Claim 32, wherein the retainer is structured and arranged to be slidably and pivotally mounted to the frame.

Claim 48 (currently amended): A blast resistant assembly comprising:
an outer frame;
an inner frame having opposing peripheral edges pivotally connected to the outer frame at the opposing peripheral edges of the inner frame; and
a composite panel having at least one glass sheet and at least one polymeric layer, wherein the composite panel is mounted in the inner frame.

Claim 49 (original): The blast resistant assembly of Claim 48, further comprising at least one retainer for securing the composite panel within the inner frame when a force is applied to the composite panel.

Claim 50 (original): The blast resistant assembly of Claim 48, wherein the inner frame is pivotal between an open position and a closed position in relation to the outer frame.

Claim 51 (original): The blast resistant assembly of Claim 48, wherein the inner frame is removable from the outer frame.

Claim 52 (original): The blast resistant assembly of Claim 48, further comprising:

at least one hinge member positioned on the inner frame, wherein the at least one hinge member has a longitudinal hole;

at least one pin mounted within the longitudinal hole of the at least one hinge member, wherein the at least one pin is movable from a retracted position substantially inside the hinge member to an extended position substantially outside the hinge member; and

at least one hinge projection positioned on the outer frame and axially aligned with the at least one hinge member positioned on the inner frame, wherein the at least one hinge projection has a longitudinal hole for receiving the at least one pin when the pin is in the extended position.

Claim 53 (original): The blast resistant assembly of Claim 52, wherein the inner frame further comprises a slidable bar for mounting the at least one pin.

Claim 54 (original): The blast resistant assembly of Claim 53, wherein at least one handle is mounted to the slidable bar for moving the at least one pin from the retracted position to the extended position.

Claim 55 (original): The blast resistant assembly of Claim 48, wherein the composite panel comprises a flat surface.

Claim 56 (withdrawn): The blast resistant assembly of Claim 48, wherein the composite panel comprises a curved surface.

Claim 57 (currently amended): A blast resistant assembly comprising:

an outer frame;

an inner frame pivotally connected to the outer frame;

a composite panel having at least one glass sheet having a peripheral edge and at least one polymeric layer, wherein the composite panel is mounted in the inner frame; and

at least one retainer for securing the composite panel within the inner frame when a force is applied to the composite panel, wherein the at least one retainer comprises a base connected to the inner frame and an extension connected to the base which extends inside the peripheral edge of the at least one glass sheet and is at least partially embedded in the at least one polymeric layer.

Claim 58 (original): The blast resistant assembly of Claim 57, wherein the extension comprises surface features for securing the extension within the at least one polymeric layer when a force is applied to the composite panel.

Claim 59 (original): The blast resistant assembly of Claim 57, wherein the extension has a serrated surface.

Claim 60 (withdrawn): The blast resistant assembly of Claim 57, wherein the extension comprises a first portion extending from the base and a second portion extending from the first portion in a direction substantially perpendicular to the first portion.

Claim 61 (withdrawn): The blast resistant assembly of Claim 60, wherein the first portion and the second portion form an L shape.

Claim 62 (withdrawn): The blast resistant assembly of Claim 60, wherein the first portion and the second portion form a T shape.

Claim 63 (withdrawn): The blast resistant assembly of Claim 57, wherein the extension has at least one through hole.

Claim 64 (original): The blast resistant assembly of Claim 57, wherein the base has a generally rectangular cross-section.

Claim 65 (withdrawn): The blast resistant assembly of Claim 57, wherein the base has a generally square cross-section.

Claim 66 (withdrawn): The blast resistant assembly of Claim 57, wherein the base has a generally round cross-section.

Claim 67 (original): The blast resistant assembly of Claim 57, wherein the base is slidably mounted to the inner frame.

Claim 68 (original): The blast resistant assembly of Claim 57, wherein the base is pivotally mounted to the inner frame.

Claim 69 (original): The blast resistant assembly of Claim 57, wherein the base is slidably and pivotally mounted to the inner frame.

Claim 70 (original): The blast resistant assembly of Claim 57, wherein the inner frame is pivotal between an open position and a closed position in relation to the outer frame.

Claim 71 (original): The blast resistant assembly of Claim 57, wherein the inner frame is removable from the outer frame.

Claim 72 (original): The blast resistant assembly of Claim 57, further comprising:

at least one hinge member positioned on the inner frame, wherein the at least one hinge member has a longitudinal hole;

at least one pin mounted within the longitudinal hole of the at least one hinge member, wherein the at least one pin is movable from a retracted position substantially inside the hinge member to an extended position substantially outside the hinge member; and

at least one hinge projection positioned on the outer frame and axially aligned with the at least one hinge member positioned on the inner frame, wherein the at least one hinge projection has a longitudinal hole for receiving the at least one pin when the pin is in the extended position.

Claim 73 (original): The blast resistant assembly of Claim 72, wherein the inner frame further comprises a slidable bar for mounting the at least one pin.

Claim 74 (original): The blast resistant assembly of Claim 73, wherein at least one handle is mounted to the slidable bar for moving the at least one pin from the retracted position to the extended position.